INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00360

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B25F5/00, B25B23/18						
According	to International Patent Classification (IPC) or to both na	tional classification and IPC	3			
	S SEARCHED					
Minimum d Int.	Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B25F5/00, B25B23/18					
Jits Koka	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1920–1998 Toroku Jitsuyo Shinan Koho 1994–2003 Kokai Jitsuyo Shinan Koho 1971–1998					
Electronic	data base consulted during the international search (nam	e of data base and, where practicable, sear	rch terms used)			
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap		Relevant to claim No.			
Y A	JP 10-34566 A (Kyushu Hitach Kaisha), 10 February, 1998 (10.02.98), Fig. 1 (Family: none)		1-3,10-12 4-9			
Y A	JP 10-34565 A (Kyushu Hitach Kaisha), 10 February, 1998 (10.02.98), Fig. 1 (Family: none)		1-3,10-12 4-9			
Y	WO 01/08228 A1 (LABOSPHERE I 01 February, 2001 (01.02.01), Page 77, lines 10 to 14 & JP 2001-40922 A		2,10			
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× Furth	er documents are listed in the continuation of Box C.	See patent family annex.				
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date and not in conflict with the application understand the principle or theory underlying the invocument of particular relevance; the claimed invent considered novel or cannot be considered to involve as the priority date and not in conflict with the application understand the principle or theory underlying the invocument of particular relevance; the claimed invent considered to involve an inventive step when the document of particular relevance; the claimed invent considered to involve an inventive step when the document with one or more other such documents, so combined with one or more other such documents, so combination being obvious to a person skilled in the document published after the international filing priority date and not in conflict with the application understand the principle or theory underlying the invent considered novel or cannot be considered to involve as the priority date and not in conflict with the application understand the principle or theory underlying the invent considered novel or cannot be considered to involve as the priority date and not in conflict with the application understand the principle or theory underlying the invent considered novel or cannot be considered to involve as the priority date and not in conflict with the application understand the priority date and not in conflict with the application understand the priority date and not in conflict with the application understand the priority date and not in conflict w			ne application but cited to erlying the invention cannot be claimed invention cannot be reed to involve an inventive claimed invention cannot be p when the document is a documents, such a skilled in the art family			
	actual completion of the international search February, 2003 (10.02.03)	Date of mailing of the international sear 25 February, 2003	ch report (25.02.03)			
	nailing address of the ISA/ anese Patent Office	Authorized officer				
Facsimile No. Telephone No.						
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International application No. PCT/JP03/00360

Continuation. DOCUMENTS CONSIDERED TO BE RELEVANT Catagory* Citation of document, with indication, where appropriate, of the relevant passages Y			PCT/JP03/00360			
Y EF 1072842 A2 (MAKITA CORP.), 31 January, 2001 (31.01.01), Figs. 1 to 2 6 JF 2001-57293 A Y JP 6-246645 A (Kazuro YAMAZAKI), 06 September, 1994 (06.09.94), Figs. 1 to 2 (Family: none) 8,10-13	C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT					
31 January, 2001 (31.01.01), Figs. 1 to 2 6 JP 2001-57293 A Y JP 6-245645 A (Kazuro YAMAZAKI), 06 September, 1994 (06.09.94), Figs. 1 to 2 (Family: none) 8,10-13	L	•	ent passages	Relevant to claim No.		
06 September, 1994 (06.09.94), Figs. 1 to 2 (Family: none)	Y.	31 January, 2001 (31.01.01), Figs. 1 to 2		10-13		
	Y	06 September, 1994 (06.09.94), Figs. 1 to 2	8,10-13			
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国際出願番号 PCT/JP03/00360 発明の属する分野の分類 (国際特許分類 (IPC)) Int. Cl7 B25F 5/00 B25B 23/18 調査を行った分野 調査を行った最小限資料(国際特許分類(IPC)) Int. Cl' B25F 5/00 B25B 23/18 最小限資料以外の資料で調査を行った分野に含まれるもの 日本国実用新案公報 1920-1998年 日本国公開実用新案公報 1971-1998年 日本国登録実用新案公報 1994-2003年 国際調査で使用した電子データベース (データベースの名称、調査に使用した用語) 関連すると認められる文献 引用文献の 関連する カテゴリー* 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示 請求の範囲の番号 JP 10-34566 A (九州日立マクセル株式会社) 199 Y 1-3.108.02.10, 第1図 (ファミリーなし) -12A 4 - 9JP 10-34565 A (九州日立マクセル株式会社) 199 Y 1-3, 108. 02. 10, 第1図 (ファミリーなし) -12Α 4 - 9WO 01/08228 A1 (ラボ・スフィア株式会社) 200 Y 2, 10 1. 02. 01, P77 10-14行&JP 2001-409 区欄の続きにも文献が列挙されている。 | パテントファミリーに関する別紙を参照。 * 引用文献のカテゴリー の日の後に公表された文献 「A」特に関連のある文献ではなく、一般的技術水準を示す 「T」国際出願日又は優先日後に公表された文献であって 出願と矛盾するものではなく、発明の原理又は理論 「E」国際出願日前の出願または特許であるが、国際出願日 の理解のために引用するもの 以後に公表されたもの 「X」特に関連のある文献であって、当該文献のみで発明 「L」優先権主張に疑義を提起する文献又は他の文献の発行 の新規性又は進歩性がないと考えられるもの 日若しくは他の特別な理由を確立するために引用する 「Y」特に関連のある文献であって、当該文献と他の1以 文献(理由を付す) 上の文献との、当業者にとって自明である組合せに 「O」口頭による開示、使用、展示等に言及する文献 よって進歩性がないと考えられるもの 「P」国際出願日前で、かつ優先権の主張の基礎となる出願 「&」同一パテントファミリー文献 国際調査を完了した日 国際調査報告の発送日 10.02.03 国際調査機関の名称及びあて先 特許庁審査官(権限のある職員) 3 C 9133 日本国特許庁 (ISA/JP) 佐々木 正章 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号 電話番号 03-3581-1101 内線 3324

	18	Race	

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C (続き).					
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するとき 22 A	は、その関連する箇所の表示	関連する 請求の範囲の番号		
Y	EP 1072842 A2 (MAKITON) 2001. 01. 31, 第1-2区293 A	TA GORPORATI	1.0-13		
Y	JP 6-246645 A (山崎 和自6, 第1-2図	3) 1994. 09. 0	8, 10-1		
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